

Joint Mission Planning System



Col (s) Jake Thorn



Purpose

- PRESENT OVERVIEW OF JMPS
 - GOALS
 - VISION
 - TEAM
 - SCHEDULE
 - QUESTIONS



JMPS Goals

Mission Statement

- Evolve world-class joint mission planning capabilities to support the war-fighter today and support Joint Vision 2010

Objectives

- Scalable framework for MP systems
- Collaborative interservice mission planner
- DII COE / C4ISR Compliance
- Reduce life-cycle costs
- Capability \geq legacy systems
- Smooth migration



Warfighter Gains

- Eliminate “\$1M and a year” improvements
- Simplified COTS Integration
- Flexible vehicle type: Aircraft to tank to ship to patrol
- Single window planning for multiple systems
- Customized user interfaces
- Flexible map display options (2D & 3D)
- Allows collaborative planning
- Focus on interoperability



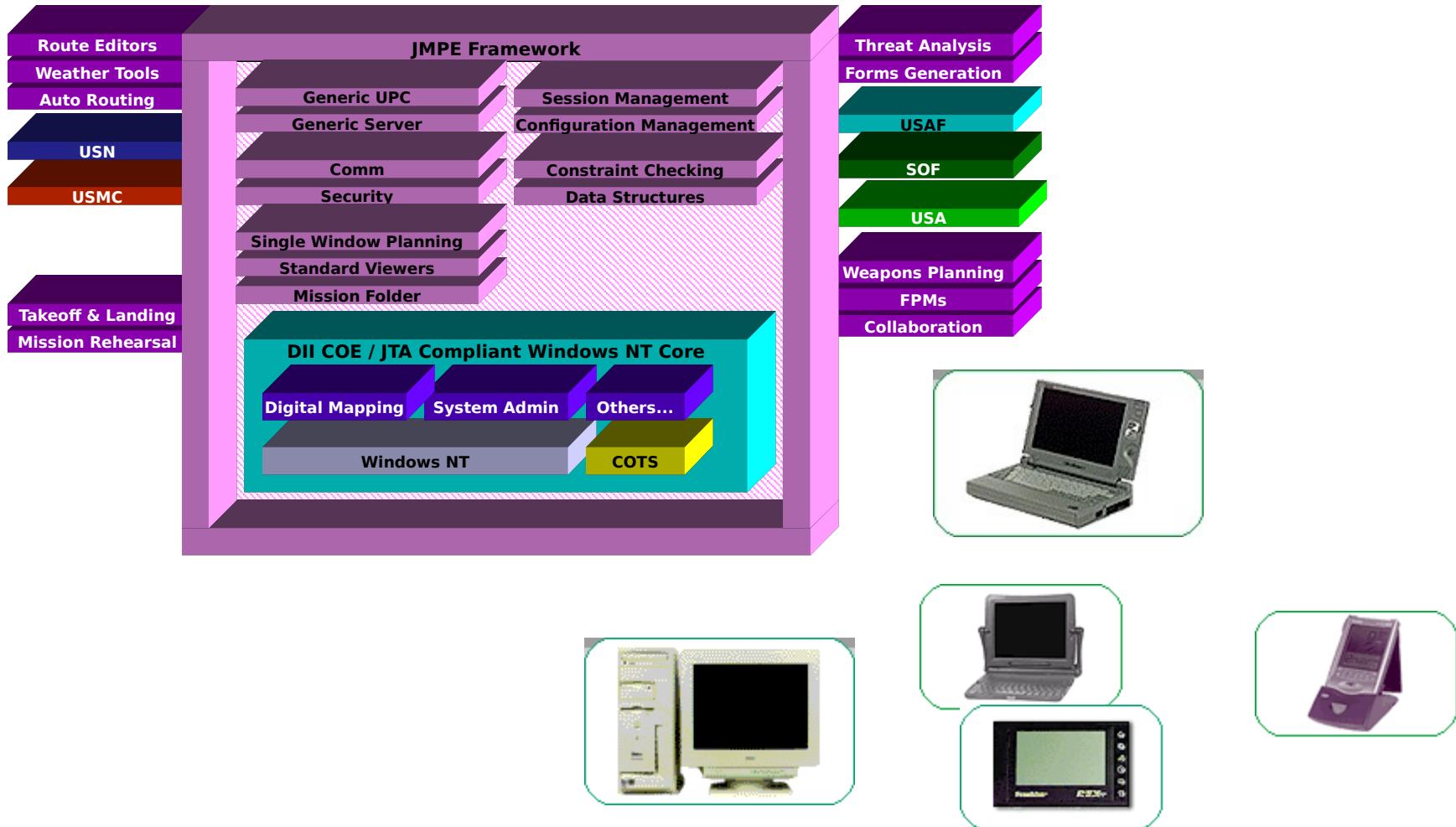
USER CONSTRAINTS

- Must Be PC Based (WINDOWS NT)
- Meet Unit Level Needs
- Match Fielded PFPS functionality
- Build credible development schedule
- Do not exceed current Budget
- Meet threshold aircraft fielding for V2 (F-16/Block 30 and F/A-18)
- Apply Lessons Learned From The Past MPS/TAMPS/PFPS



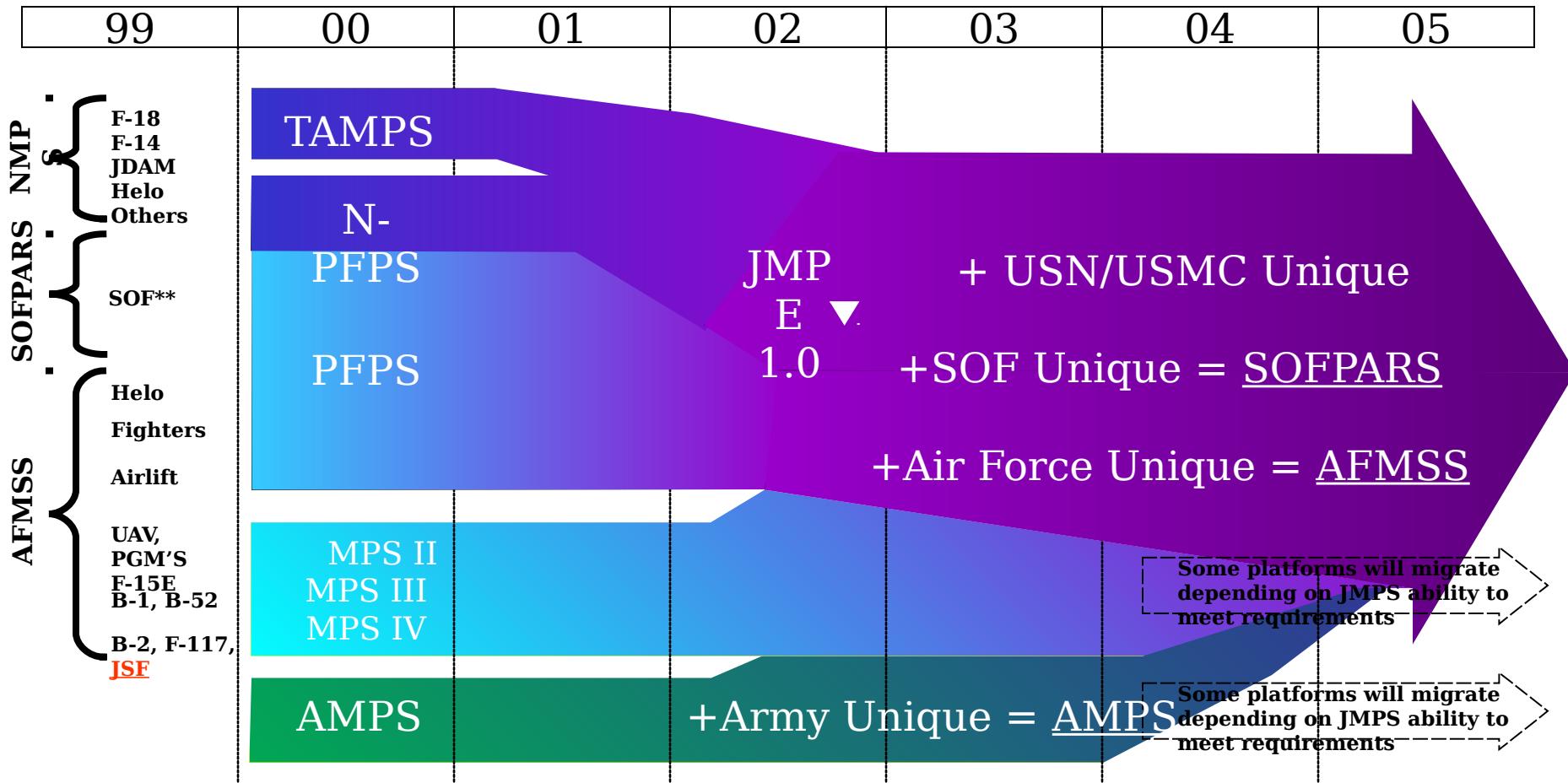
JMPS VISION

JMPE +SERVICE UNIQUE+HARDWARE



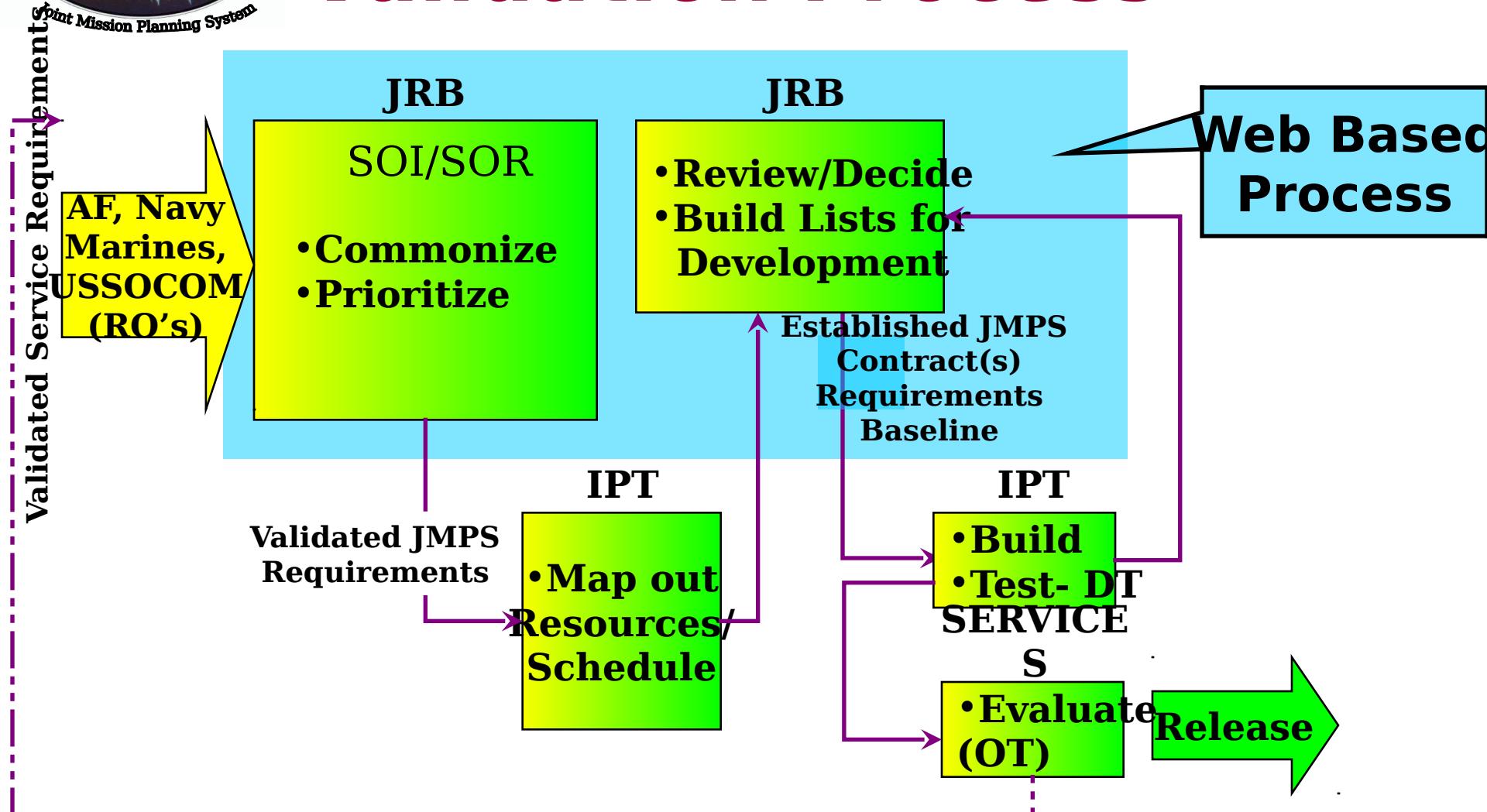


JMPS ROADMAP





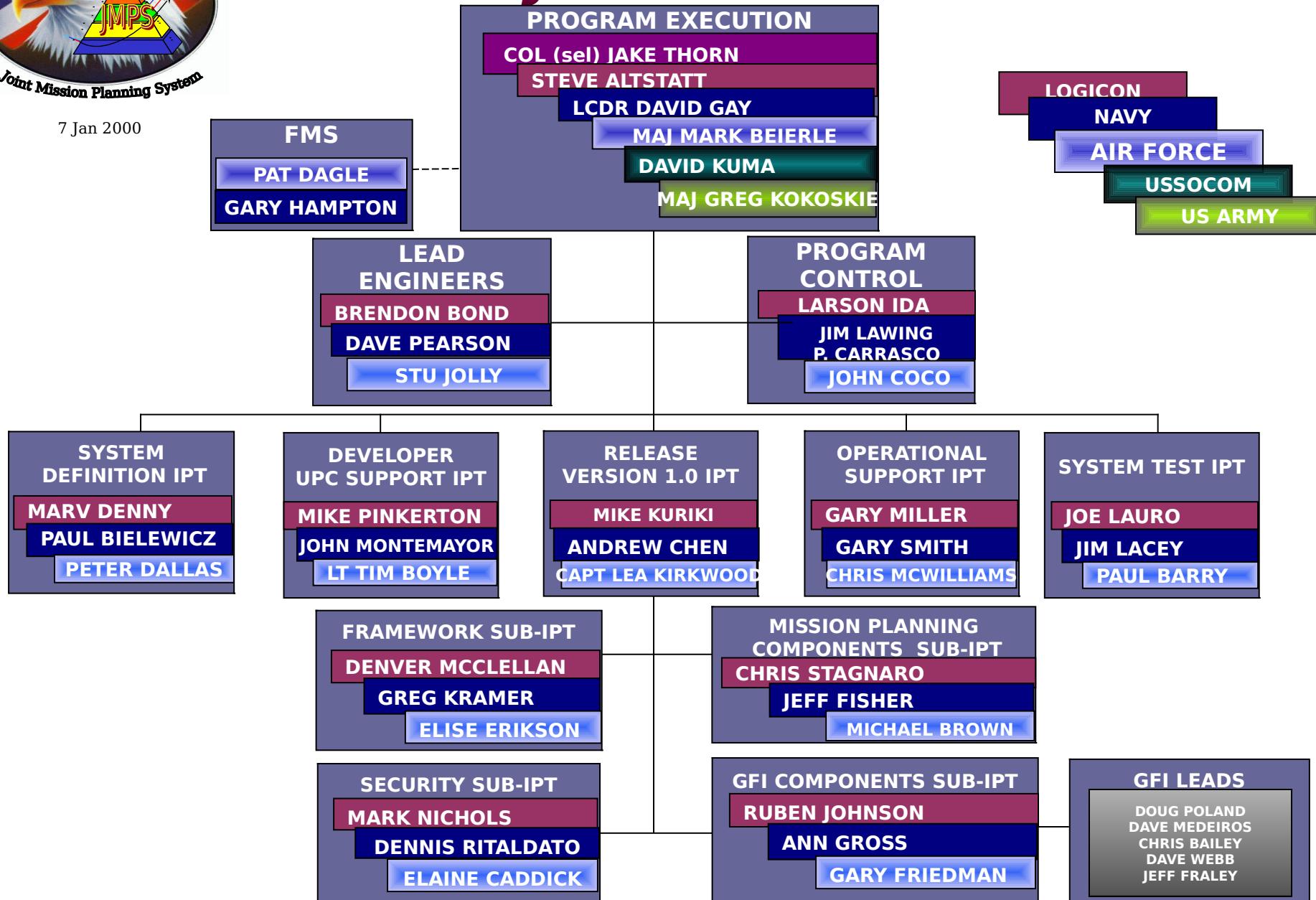
JRB Requirements Validation Process





7 Jan 2000

PHASE II JMPS IPT STRUCTURE





Logicon Team

- Ampersand
- Autometric
- Boeing
- CMI
- Jaycor
- Lockheed Martin
- GFI Members
 - TYBRIN
 - GTRI
- Microsoft
- Northrop Grumman
- On-Board Software
- PRB
- Raytheon
- TRW
- 46TS/OGET



JMPS Schedule Baseline

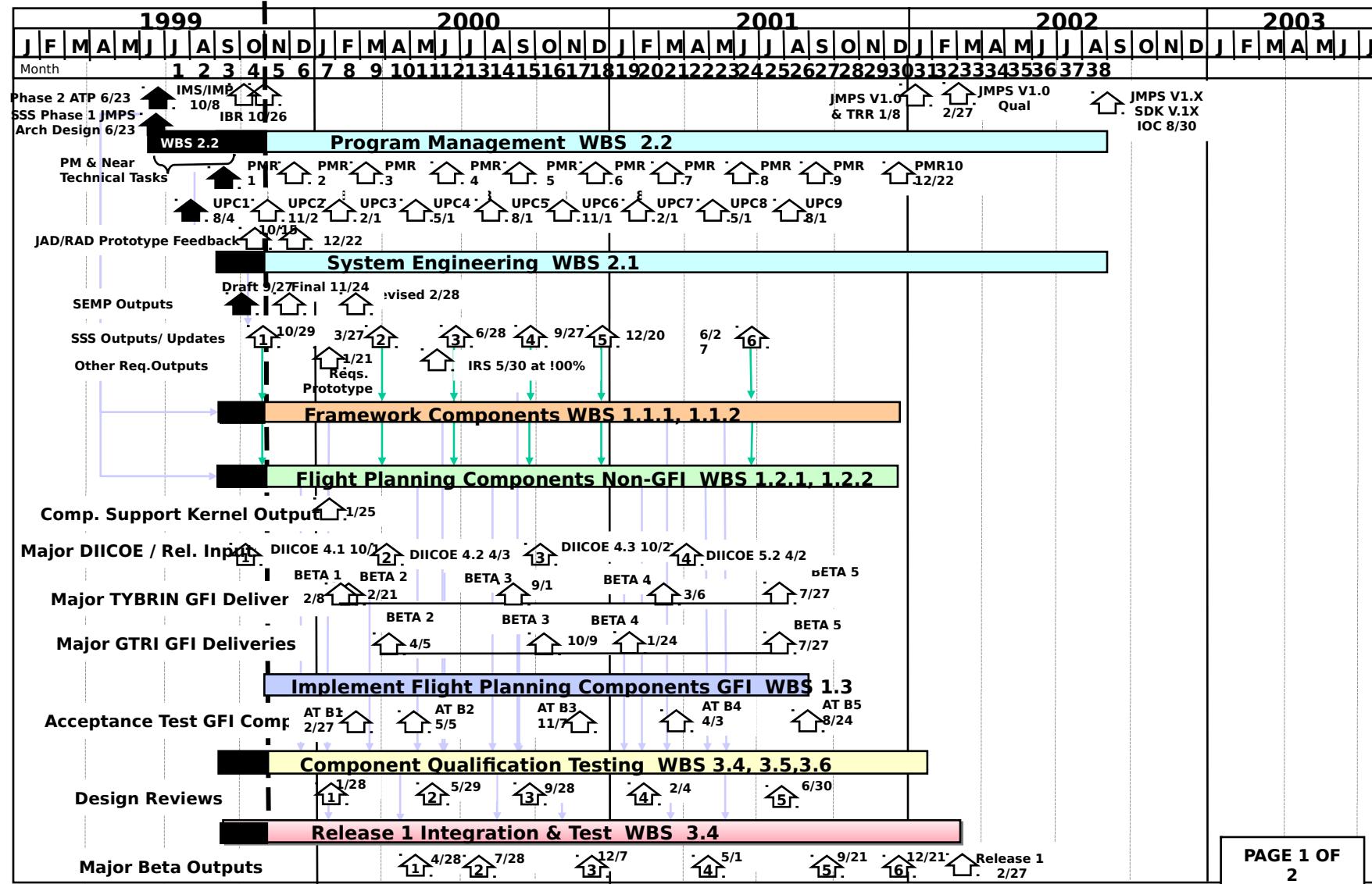
38 Month JMPS Program Schedule

- Offers lowest possible JMPS risk while preserving PFPS baseline
- Fits within available funding profile
- Meets JMPS Combat Planner schedule

Master Schedule



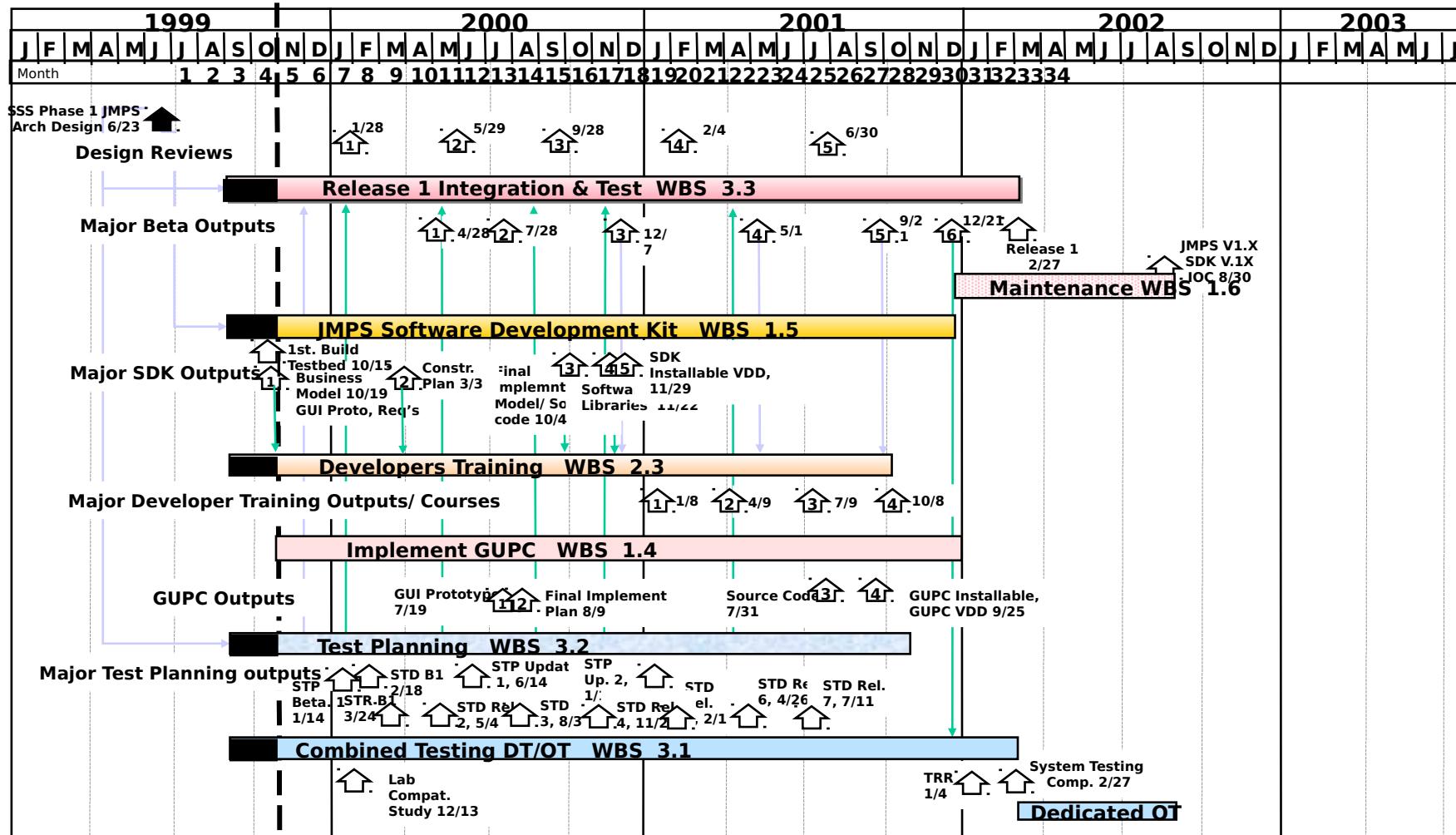
38 Month Schedule-Dated 10/27/99, Status as of: 9/17/00



Master Schedule



38 Month Schedule-Dated 10/27/99, Status as of: 9/1/00



Notes: This PMS reflects a 38 month schedule to accommodate the integration of GFI Components. Refinement to the schedule will continue through the replanning process.

Prepared By:

Gilbert G. Caughman

TITLE: JMPS Program Master Schedule

SCHEDULE NO. PMS 448

ORGN:

Program Controls 830

DATE 10/15/99

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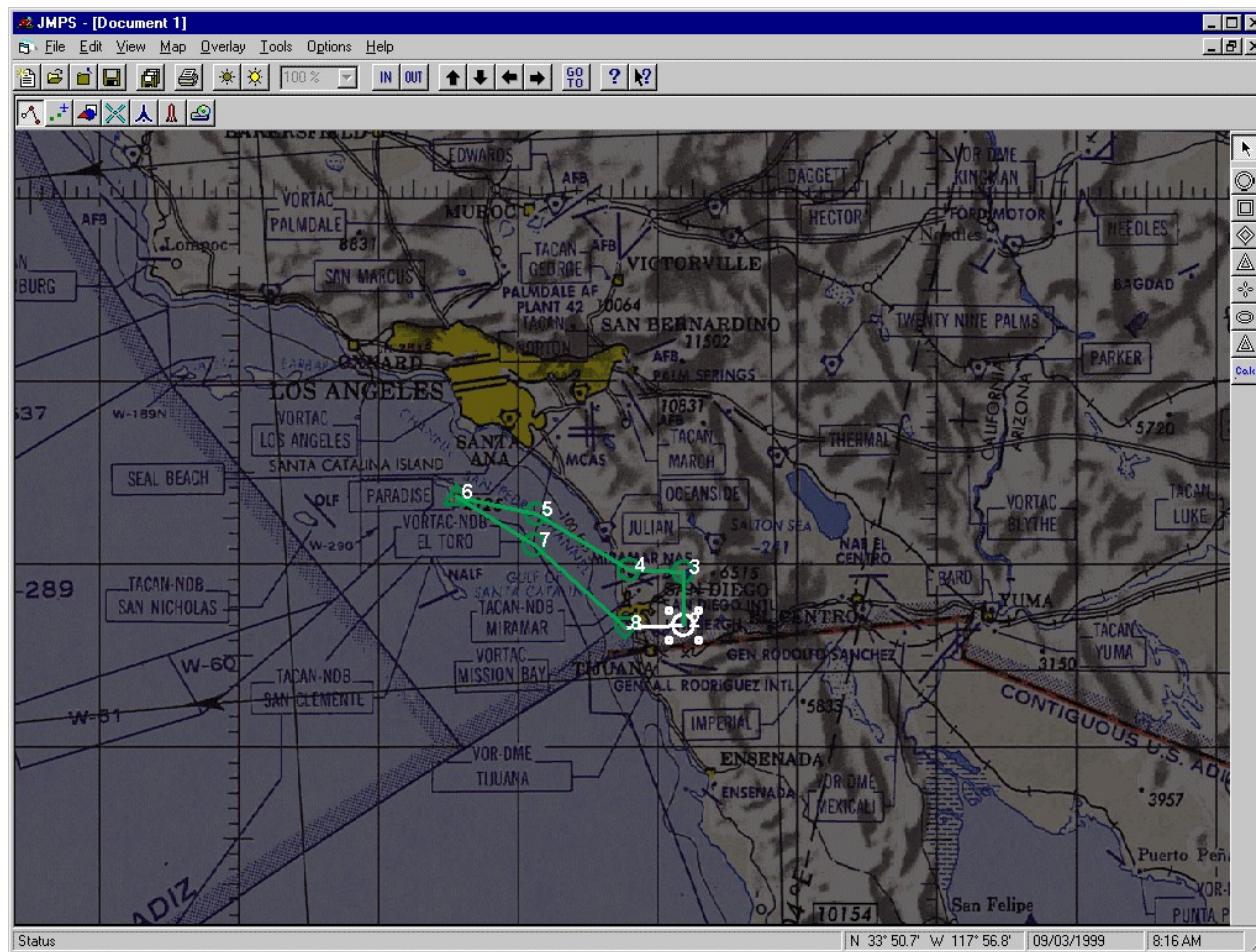


HOT TOPICS

- JMPS vs PFPS
- WHAT MAPS
- WHATS NEW



JMPS





Multiple Window Display

The image shows a screenshot of the JMPS software interface, demonstrating its capability for displaying multiple windows simultaneously.

Left Panel: A vertical toolbar containing icons for Information, Folders, Tasks, Strike, Missions, Snap Shots, Briefing, and Knee Board.

Top Bar: A menu bar with File, Edit, View, Overlay, Tools, Options, Help, and status indicators for IN, OUT, 100%, GO TO, and question marks.

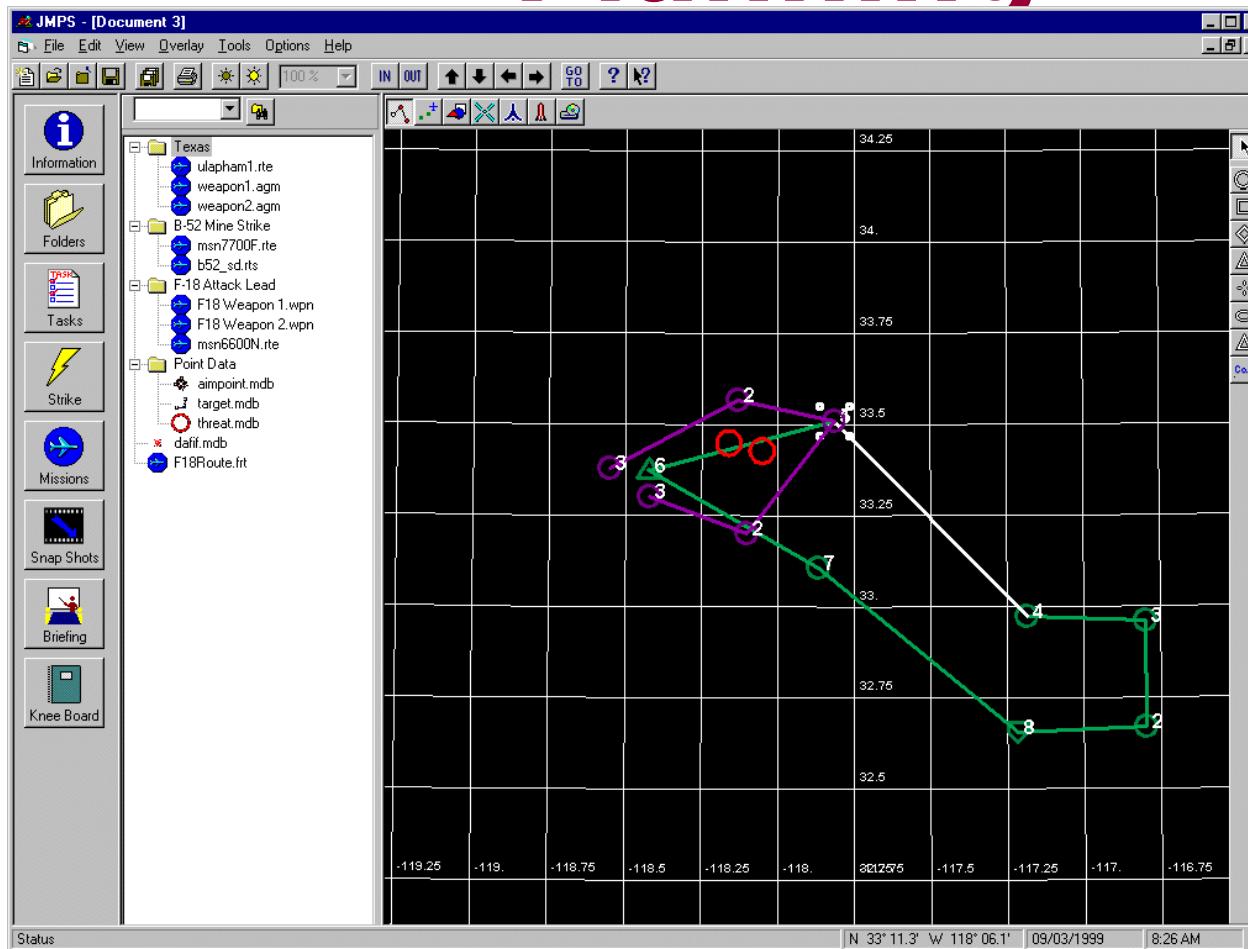
Document 1 (Map View): A map of Southern California, specifically the San Diego and Imperial areas. Key locations labeled include Palm Springs, TACAN MARSH, Oceanside, Julian, Salton Sea, and Miramar. A green route line is plotted through several waypoints (6, 5, 7, 4, 3, 2) on the map.

Document 3 (Grid View): A grid-based plot showing the same route from Document 1. The vertical axis represents latitude with values 32.0, 32.25, 32.5, 32.75, 33.0, 33.25, and 33.5. The horizontal axis represents longitude with values 26119, -118.75118, -118.26118, -117.75117, -117.25117, -116.75116, -116.26116, and -115.75115. The route points are numbered 6 through 2 along the path.

Status Bar: Displays coordinates N 33° 21.2' W 118° 28.0', the date 09/03/1999, and the time 8:25 AM.

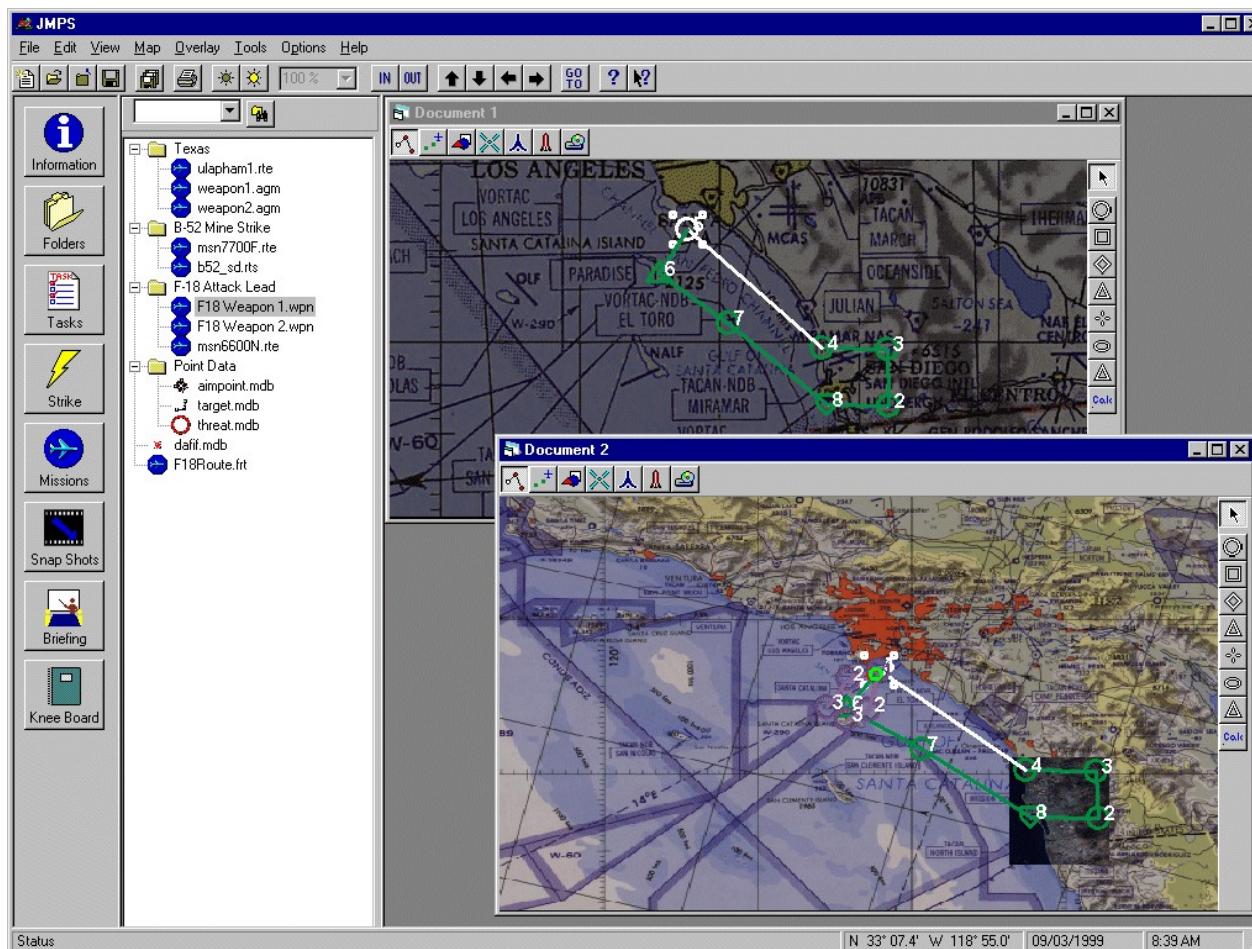


Single Window Planning



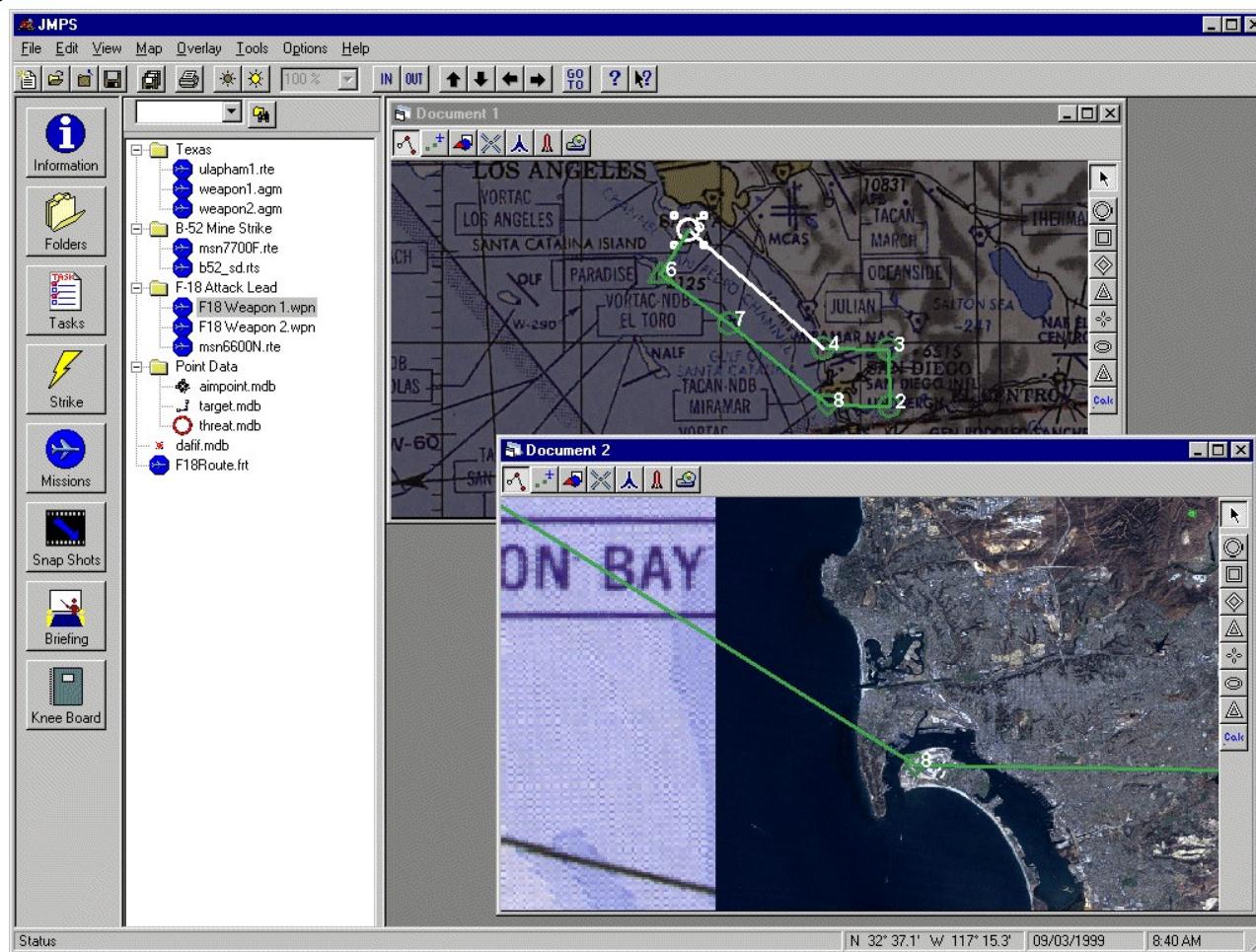


EDO Map



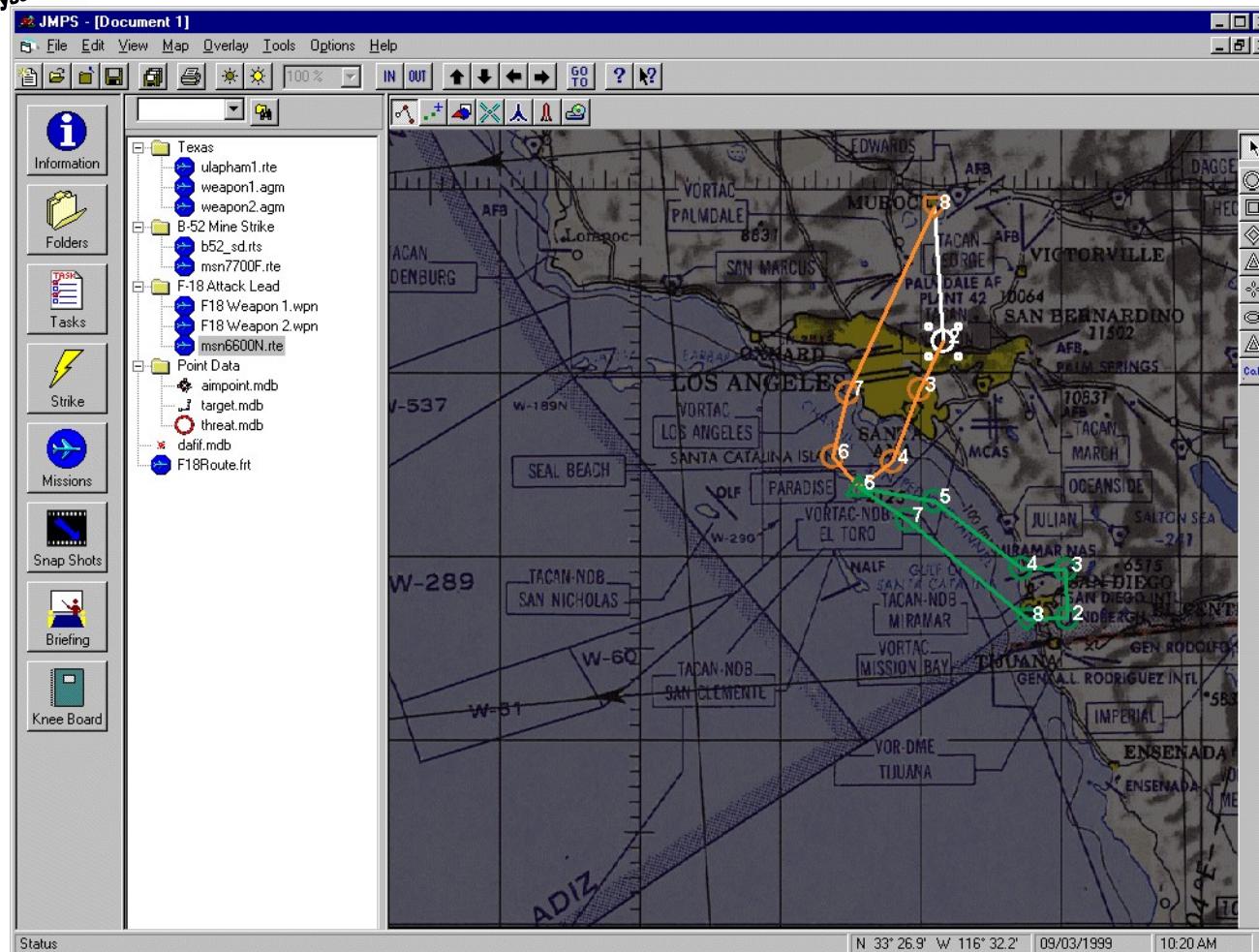


EDO Imagery





Collaboration





Form 70

Microsoft Excel - divert70.frm

Next Previous Zoom Print... Setup... Margins Page Break Preview Close Help

Date: 09/03/1999 NAVDATE

CLEARANCE		TAKEOFF, CLIMB, CRUISE DATA					
		GENERAL AIRCRAFT					
ITEM	IC	Climb:	On	Cruise:	SGS	Wind:	Wind:
ITEM	IC	Wind:	WIND	Temp:	+150	H:	H:
FREQ/UECIES		TOT:	MC				
		RES:	MC				
DEP FIELD DATA		TOT DIST	00	TOT ETE	00:00:00	TOT FUEL	10000
TRW	ROUTE	NAV	LAT	RN	00:00:00	FUEL	LBS USED
DTD	IC	084N	LOM	MC	00:00:00	00	00:00:00
WIND	(ADDL ROUTE)	WXR	WXR	WXR	00:00:00	00:00:00	00:00:00
ALT	(ADDL FOO)	FREQ	B/EV	CTD	TOT	TAS	TAS
TR1			N 32° 40'	000	00:00:00	S06	00:00:00
DTD	DEPARTURE		W117 12.50	000	00:00:00	S06	00:00:00
TURM SHO RTB			0	00	00:00:00	S06	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR2			N 32° 39.97	000	00:00:00	0	00:00:00
DTD			W116 45.17	000	00:00:00	0	00:00:00
TURM SHO RTB			0	00	00:00:00	0	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR3			N 32° 47.03	000	00:00:00	0	00:00:00
DTD	TURM SHO RTB		W116 47.32	000	00:00:00	0	00:00:00
DN			0	00	00:00:00	0	00:00:00
TR4			N 32° 58.04	000	00:00:00	0	00:00:00
DTD			W117 14.32	000	00:00:00	0	00:00:00
TURM SHO RTB			0	00	00:00:00	0	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR5			N 33° 37.16	000	00:00:00	0	00:00:00
DTD			W117 12.0	000	00:00:00	0	00:00:00
TURM SHO RTB			0	00	00:00:00	0	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR6			N 33° 22.36	000	00:00:00	S06	00:00:00
DTD	TARGET		W118 25.30	000	00:00:00	S06	00:00:00
TURM SHO RTB			0	00	00:00:00	S06	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR7			N 33° 06.15	000	00:00:00	0	00:00:00
DTD			W117 55.68	000	00:00:00	0	00:00:00
TURM SHO RTB			0	00	00:00:00	0	00:00:00
DN			0	00	00:00:00	()	00:00:00
TR8			N 32° 59.40	000	00:00:00	S06	00:00:00
DTD	DESTINATION		W117 12.50	000	00:00:00	S06	00:00:00
TURM SHO RTB			0	00	00:00:00	S06	00:00:00
DN			0	00	00:00:00	()	00:00:00

AF FORM 70 (Modified)- CFPS Ver. 31 Page 1 of 1



Print Server: Form 200

Microsoft Excel - frm200_b52.frm

Next Previous Zoom Print... Setup... Margins Page Break Preview Close Help

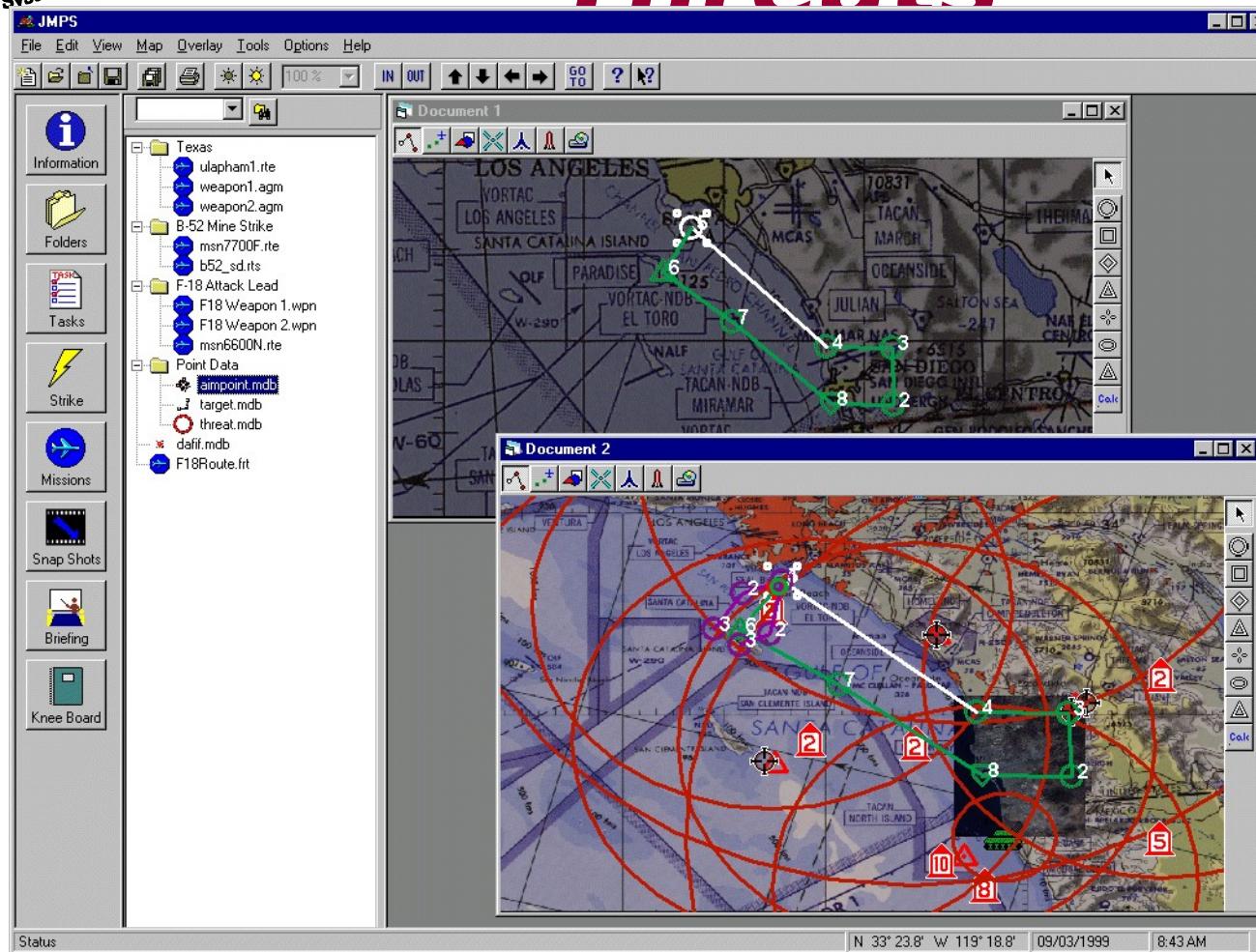
DATE: PILOT:	SQDN: CO-PILOT:	WING: RN:	CREW: NAV:	A/C TYPE: EW:	A/C #: CALLSIGN:						
FLIGHT INFORMATION				AIR REFUELING INFORMATION							
Take Off Time (Z): Land Time (Z): Sched Duration:	00+00+00 Fuel Load: 0	Fuel Used: 0	A/R Track: Pri. Freq: Sec. Freq: Act Gross Wt: APN 69 BCN: A/ATACAN:	A/R Altitude: FL Unload: Tanker Type: Remarks: Y							
MOR ID	RADOME/REMARKS	BANK	W/W	TEMP	CAS	TAS	GDST	TIME	ETA	GROSS	FUEL
TAC LAT	LON	TRK	VAR	MC	DCA	MH	ALT	MACH	GS	ACDST	ACTIME
EDWARDS AFT KEDMWA N 34 54.283	W117 53.017	027	14.1E 013	000	013	2302M	0.46	506	0.0	00+00+00	00:00:00
N 34 10.329	W117 49.122	185	14.1E 171	000	171	20000M	0.49	506	44.2	00+08+51	00:08:51
N 33 54.575	W117 59.008	185	13.9E 171	000	171	20000M	0.49	506	15.7	00+03+08	00:11:59
N 33 30.966	W118 10.727	202	13.8E 189	000	189	20000M	0.49	506	25.5	00+05+07	00:17:06
TARGET	W118 25.300	235	13.7E 221	000	221	20000M	0.49	506	14.9	00+02+59	00:20:05
N 33 32.670	W118 36.389	318	13.7E 304	000	304	20000M	0.49	506	13.8	00+02+46	00:22:51
N 33 53.439	W118 29.981	014	13.8E 001	000	001	20000M	0.49	506	114.2	00:22:51	00:22:51
EDWARDS AFT KEDMWA N 34 54.283	W117 53.017	000	0	000	000	2302M	506.34	506	21.4	00+04+17	00:27:08
						+10C	506	506	0.0	00+00+00	00:00:00
							0.0	0.0	0.0	00:00:00	00:00:00
										30000	0

ACC FORM 200 (COMPUTER GENERATED) C:\PPFS\data\ROUTES\B52_sd.rte 09/03/1999 10:21 AM

Preview: Page 1 of 1



Aimpoints, Targets, Threats





Briefing Charts Start

The screenshot shows the JMPS software interface. On the left is a vertical toolbar with icons for Information, Folders, Tasks, Strike, Missions, Snap Shots, Briefing, and Knee Board. The main window has two tabs: "Document 1" and "Document 2".

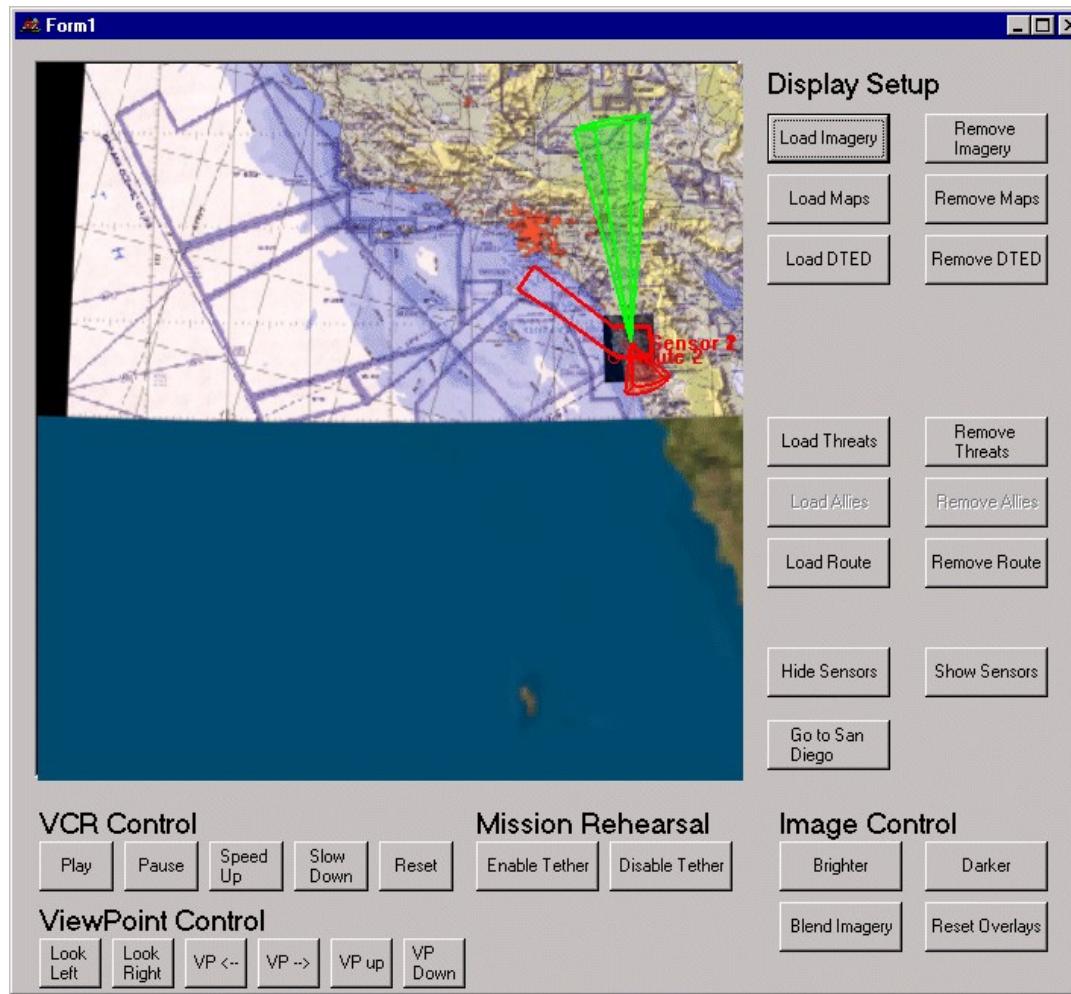
Document 1: A map of Southern California, specifically the Los Angeles and San Diego areas. The map includes labels for LOS ANGELES, SANTA MONICA, SANTA CATALINA ISLAND, PARADISE, VORTAC, MCAS, TACAN, MARSH, OCEANSIDE, JULIAN, SALTON SEA, NARCO, and SAN DIEGO. A green polygonal route is plotted through several locations, numbered 6, 7, 4, 3, 8, and 2. A red circle highlights a point on the map.

Document 2: A presentation slide titled "Mission Commander Slides" with the subtitle "(LOGICON JMPS)". It contains the text "Return to OSTT Within 3 Days After CWT". The date "03 Sep, 1999" is shown at the bottom. The slide has a "Slide 1" indicator in the bottom right corner.

The status bar at the bottom of the window displays coordinates "N 33° 03'.4" and "W 119° 36'.5", the date "09/03/1999", and the time "8:44 AM".



Route Rehearsal





FLY -Through

Form1

An aerial photograph of a hilly or mountainous terrain. A red dashed line runs vertically through the center of the image, labeled "Route 2" at the top. The terrain is covered in green vegetation and some brownish areas, possibly indicating different land types or sensor data. The sky above is dark.

Display Setup

Load Imagery	Remove Imagery
Load Maps	Remove Maps
Load DTED	Remove DTED

Load Threats	Remove Threats
Load Allies	Remove Allies
Load Route	Remove Route

Hide Sensors	Show Sensors
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Go to San Diego

VCR Control

Play	Pause	Speed Up	Slow Down	Reset	Enable Tether	Disable Tether
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Mission Rehearsal

Look Left	Look Right	VP <-	VP ->	VP up	VP Down
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Image Control

Brighter	Darker
Blend Imagery	Reset Overlays

ViewPoint Control

Look Left	Look Right	VP <-	VP ->	VP up	VP Down
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Exit Ramp Triggers

- Cost: Projected greater than 10% overrun
- Schedule: Projected greater than 6 month slip
- Performance: Beta test trends indicate User dissatisfaction (PFPS baseline)



WHAT CAN YOU DO

- Support Mission Planning
 - AFMSS is MPS/PFPS/JMPS
- Spend Time At The Booths
- Without Your Support No Funding
 - PFPS Or Anything Else



QUESTIONS?